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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of: HUANG ET AL.

CASE NO.: CL1942 US NA

APPLICATION NO.: 10/630,262

GROUP ART UNIT: UNKNOWN

FILED: JULY 30, 2003

EXAMINER: UNKNOWN

FOR: FUNCTIONALIZED NANOPARTICLES

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO/SB/08A and PTO/SB/08B. A copy of the information is also enclosed.

For the Examiner's convenience Applicants additionally enclose a CD rom containing a copy of PTO 1449 in MS Word format containing hyperlinks to the full text of all cited references.

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Respectfully submitted,

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Dated:

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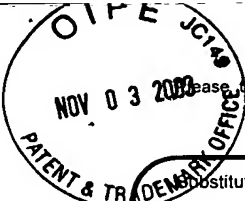
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Sheet 2 of 2

Complete if Known

Application Number	10/630,262
Filing Date	JULY 30, 2003
First Named Inventor	HUANG ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	CL1942 US NA

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Mirkin, C. et al., A DNA-based mtehod for rationally assembling nanoparticles into macroscopic materials, Nature, Vol. 382, August 1996, pg. 607	
		Yun, C. et al., Enzymatic Manipulation of DNA-Nanomaterial Constructs, JACS 2002, 124(26), 7644-7645	
		Mucic, R. et al, DNA-Directed Synthesis of Binary Nanoparticles Network Materials, JACS, 1998, 120, pg. 12674-12675	
		Alivisatos et al., Organization of nanocrystal molecules using DNA, Nature, Vol. 382, Aug. 1996, pg. 609	
		Kim et al., Getting a handhold on DNA: Design of poly-zinc finger proteins with femtomolar dissociation constants, Proc. Natl. Acad. Sci. USA, 1998, March 17, 95(6), 2812-7	
		Wolfe et al., Annu Rev. Biophys Biomol Struct. 2000; 29: 183-212	
		Chen et al., Poly(N-vinylisobutyramide)-stabilized platinum nanoparticles: synthesis and temperature-responsive ehavior in aqueous solution, Colloids and Surfaces A 169: 107-116, 2000	
		Wuelfing et al., Nanometer Gold Clusters Protected by Surface-Bound Monolayers of Thiolated Poly(ethylene glycol) Polymer Electrolyte, J. Am. Chem. Soc. 120: 12696-12697, 1998	
		Chan et al., Quantum Dot Bioconjugates for Ultrasensitive Nonisotopic Detection, Science 281: 2016-2018, 1998,	
		Mitchell et al., Programmed Assembly of DNA Functionalized Quantum Dots, J. Am. Chem. Soc. 121: 8122-8123, 1999	
		Napper, Steric Stabilization, J. Colloid. Interface. Sci 58, 390-407, 1977	
		Niemeyer et al., Nucleic Acid Supercoiling as a Means for Ionic Switching of DNA - Nanoparticle Networks, CHEMBIOCHEM, 2001, PP. 260-264	

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